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PHOTOGRAPHIC INTERPRETATION REPORT



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**INSTRUMENTATION SITE 15
SARY-SHAGAN
ANTIMISSILE TEST CENTER
USSR**

25X1

MARCH 1967
COPY **116**
14 PAGES

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Declass Review by NIMA/DOD

GROUP 1: EXCLUDED FROM
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PHOTOGRAPHIC INTERPRETATION REPORT

INSTRUMENTATION SITE 15
SARY-SHAGAN
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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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PREFACE

This report is one of a series prepared under NPIC Project 11023/66 in response to CIA Requirement C-DI5-82,750 (revised) requesting detailed line drawings, to scale, of selected facilities at the Sary-Shagan Antimissile Test Center, USSR. The basic layout contained herein was compiled from photography obtained on [redacted] Individual reports will be updated periodically to reflect changes observed on subsequent photography.

The precision target plots included in this report are mathematically rectified projections of the area. Plots are compiled utilizing precision mensuration instruments, and image interpretation is performed with the aid of stereoscopic viewing equipment. Identifiable image points are measured and their coordinate values mathematically transformed by computer. This transformation corrects for camera and attitude (pitch, roll, and yaw) induced distortions, but does not correct for displacement due to ground relief and object height.

These target plots represent the most accurate data compiled to date, but the user is cautioned to exercise care in scaling distances or determining azimuths from these plots because relief can introduce errors in distance and alignment.

Horizontal and vertical dimensional accuracy and azimuthal accuracy for the individual plots are:

Horizontal Accuracy

Vertical Accuracy

Azimuthal Accuracy

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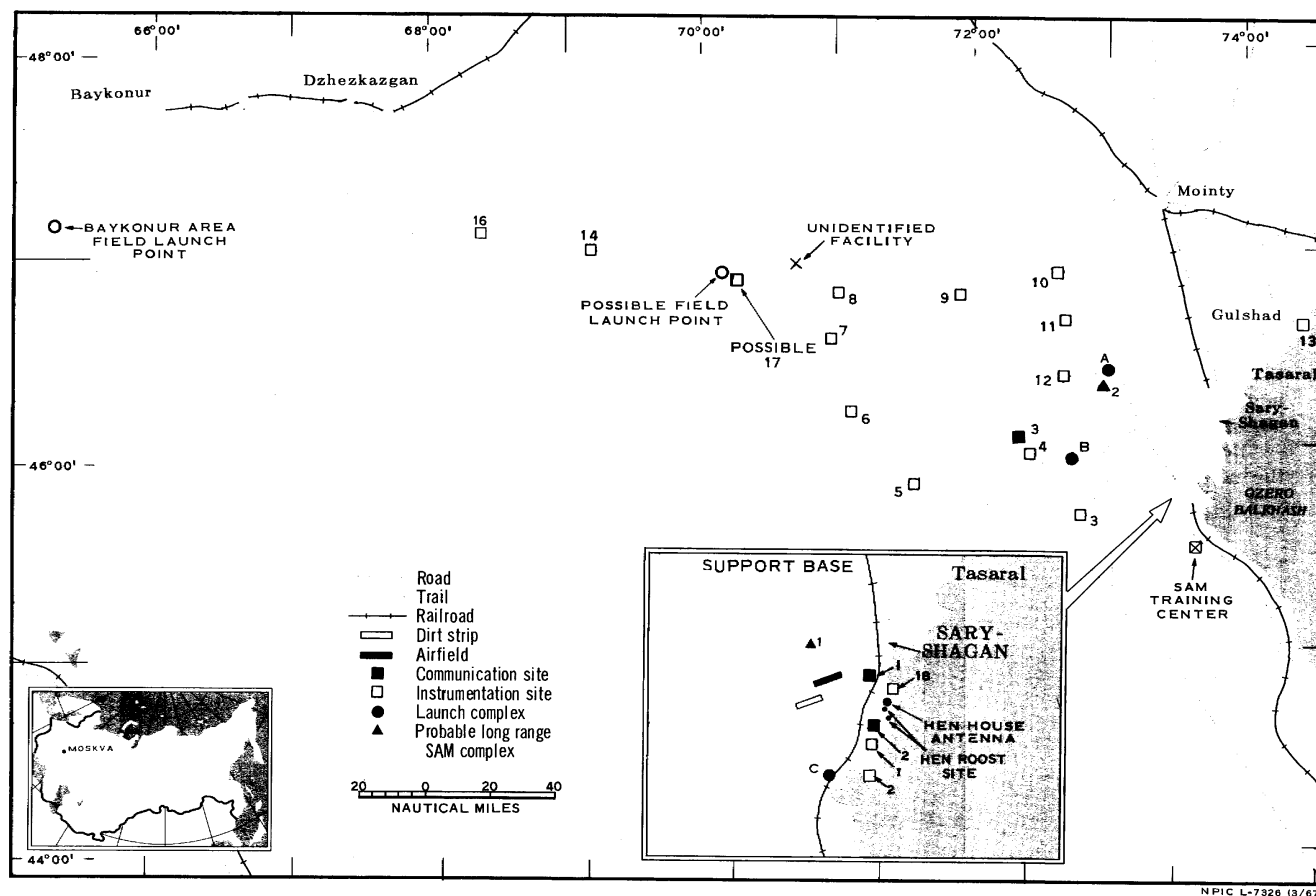


FIGURE 1. SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR.

NPIC L-7326 (3/67)

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INTRODUCTION

Instrumentation Site 15 (47-22N 067-29E) is the westernmost facility at the Sary-Shagan Antimissile Test Center (SSATC). It is located 270 nautical miles (nm) west-northwest of the headquarters buildings at the Main Support Base on Ozero Balkhash (Figure 1).

Instrumentation Site 15 is 1 of 5 areas where E-shaped buildings are located at the SSATC. E-shaped buildings are also located at Instrumentation Sites 14, 16, 17, and 18. See CIA/PIR []

DESCRIPTION

Instrumentation Site 15 (Figures 2 and 3) was first observed on photography in [] Site activity can be negated in [] When the site was first observed it was in an early stage of construction. Grading for the E-shaped building was apparent at that time. See chronology, Table 1, for details of site development.

The site consists of the unique E-shaped building, a second large operations building, an interferometer site, a natural-surfaced airstrip, and a small support area.

The E-shaped building at Instrumentation Site 15 consists of a rectangular main section [] with 3 wings attached to the in-range (south) side of the building. (See Figure 4 and annotation 42, Figure 5.) Three raised sections are positioned on the roof of the main section in-line with the 3 wings (annotations 42c). A rectangular-shaped structure is positioned on each wing of the building (annotations 42b). Each of the 3 structures measures []

A comparison of the 2 large-scale coverages of [] indicates that the rectangular-shaped structures on the wings of the E-building are movable, i.e., traverse the long axis of the wing. In [] each probably movable structure was positioned near the end of the wing, but in [] the structures on the outer wings were positioned flush against the raised portion of the main section of the building. (See artist's concept, inset, Figure 5.)

The E-shaped building at Instrumentation Site 15 was under construction when the entire site was first observed under construction in [] Construction activity was apparent around the E-building through [] However, the rectangular probably movable structures on the wings of the E-building were not clearly discernible until [] A completion date for the E-building cannot be pinpointed on any one mission - but evidence points to probable completion by mid-to-late []

A second operations building was first observed under construction at Instrumentation Site 15 in [] (See annotation 33, Figure 5.) It appeared externally complete by [] Its orientation and size equates with the main section of the E-building.

A "standard" SSATC-type interferometer was first observed under construction at Site 15 in [] (See Figures 6 and 7.) Four 500-foot legs formed a plus-type configuration, with 3 antenna positions on each leg. In [] work began on 9,300- to 9,400-foot extensions for each leg of the "original" interferometer. By [] probable antenna positions, forming L-shaped patterns, were under construction near the termini of the extended interferometer legs. (See Figures 2 and 3.) Work was still in progress on these antenna positions as of []

Activity in the site support area remained stable, i.e., no new major additions were observed, from [] [] a large probable two-story barracks building was constructed in the support area (annotation 18, Figure 5).

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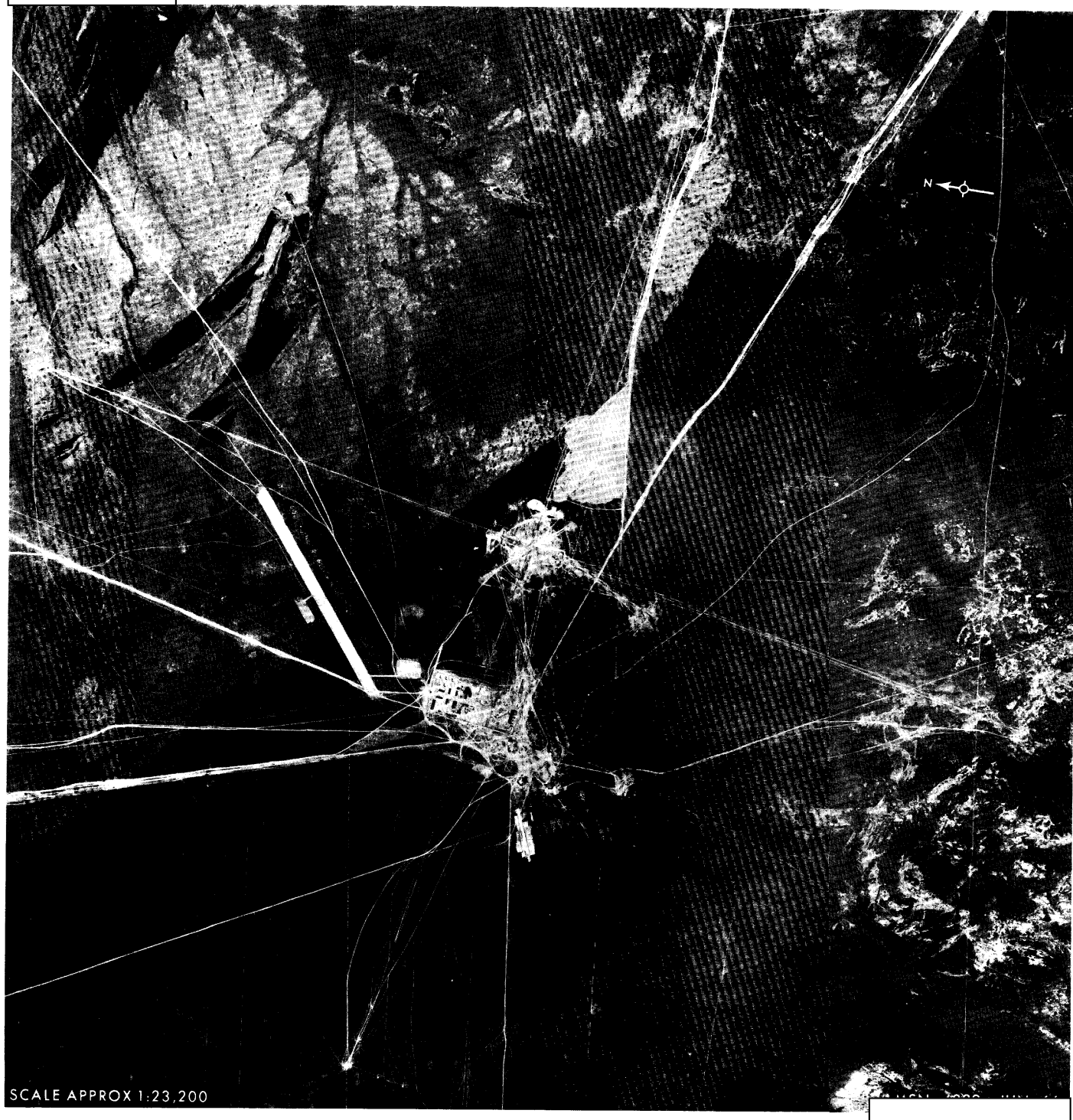


FIGURE 2. INSTRUMENTATION SITE 15.

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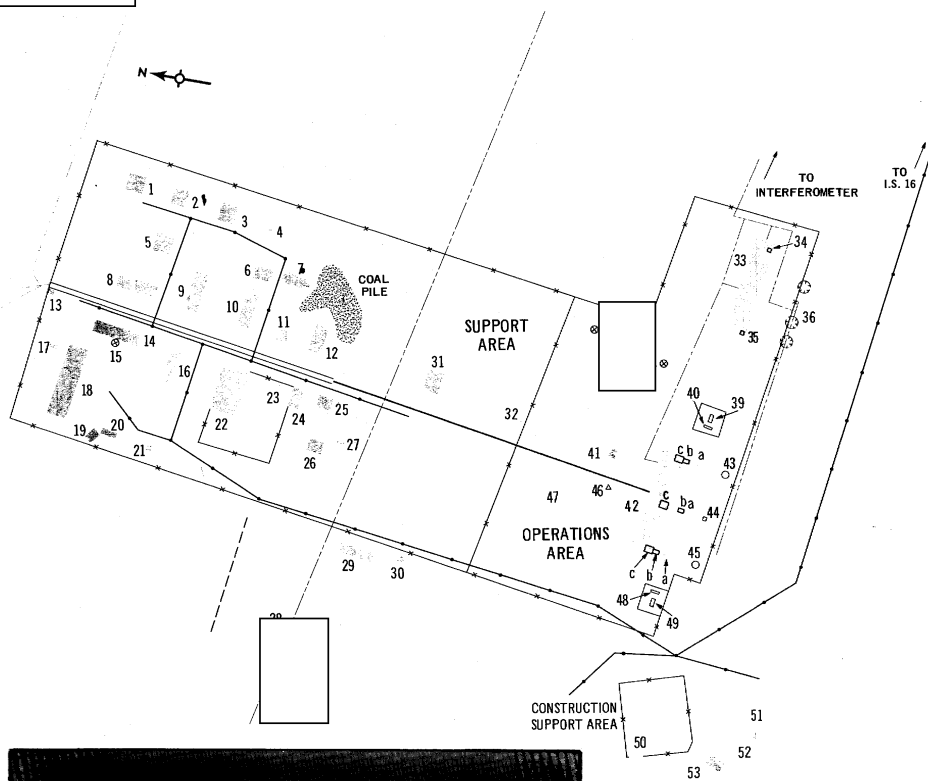


SCALE APPROX 1:2050

FIGURE 4. OPERATIONS AND SUPPORT AREA.

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ITEM	DESCRIPTION
1	BARRACKS
2	BARRACKS
3	BARRACKS
4	BUILDING
5	BARRACKS
6	SHOP BUILDING
7	SHOP BUILDING
8	BARRACKS
9	BARRACKS
10	BARRACKS
11	SHOP BUILDING
12	STEAMPLANT
13	SECURITY BUILDING
14	ADMINISTRATION BUILDING
15	COMMUNICATIONS MAST
16	BARRACKS
17	BUILDING
18	BARRACKS (PROBABLE 2 STORY)
19	TENT
20	BUILDING
21	BUILDING
22	SHOP BUILDING (PROBABLE 2 STORY)
23	SHOP BUILDING
24	SHOP BUILDING
25	SHOP BUILDING
26	SHOP BUILDING
27	SHOP BUILDING
28	BUILDING
29	BUILDING
30	BUILDING
31	BUILDING
32	BUILDING
33	OPERATIONS BUILDING
34	VHF/UHF ANTENNA
35	VHF/UHF ANTENNA
36	3 SHALLOW EXCAVATIONS
37	HORIZONTAL DIPOLE ANTENNA MAST**
38	HORIZONTAL DIPOLE ANTENNA MAST**
39	ELECTRONICS VAN
40	ELECTRONICS VAN
41	EARTH-BANKED BUILDING
42	E-SHAPED OPERATIONS BUILDING (MAIN SECTION)
a	OPERATIONS BUILDING WING
b	PROBABLE MOVABLE STRUCTURE
c	RAISED SECTION
43	ENVIRONMENTAL DOME
44	POSSIBLE ANTENNA
45	ENVIRONMENTAL DOME
46	MICROWAVE TOWER WITH 1 PROBABLE HORN LENS ANTENNA
47	BUILDING
48	ELECTRONICS VAN
49	ELECTRONICS VAN
50	BUILDING
51	BUILDING
52	BUILDING
53	EARTH-BANKED BUILDING

*OVERALL DIMENSIONS.
**ITEMS 37, 38 PROPAGATING AZIMUTH
NOTE: ALL STRUCTURES ARE 1 STORY EXCEPT ITEMS 18 & 22.

FIGURE 5. LINE DRAWING OF OPERATIONS AND SUPPORT AREA, WITH INSET OF E-SHAPED BUILDING.

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FIGURE 6. INTERFEROMETER, SITE 15.

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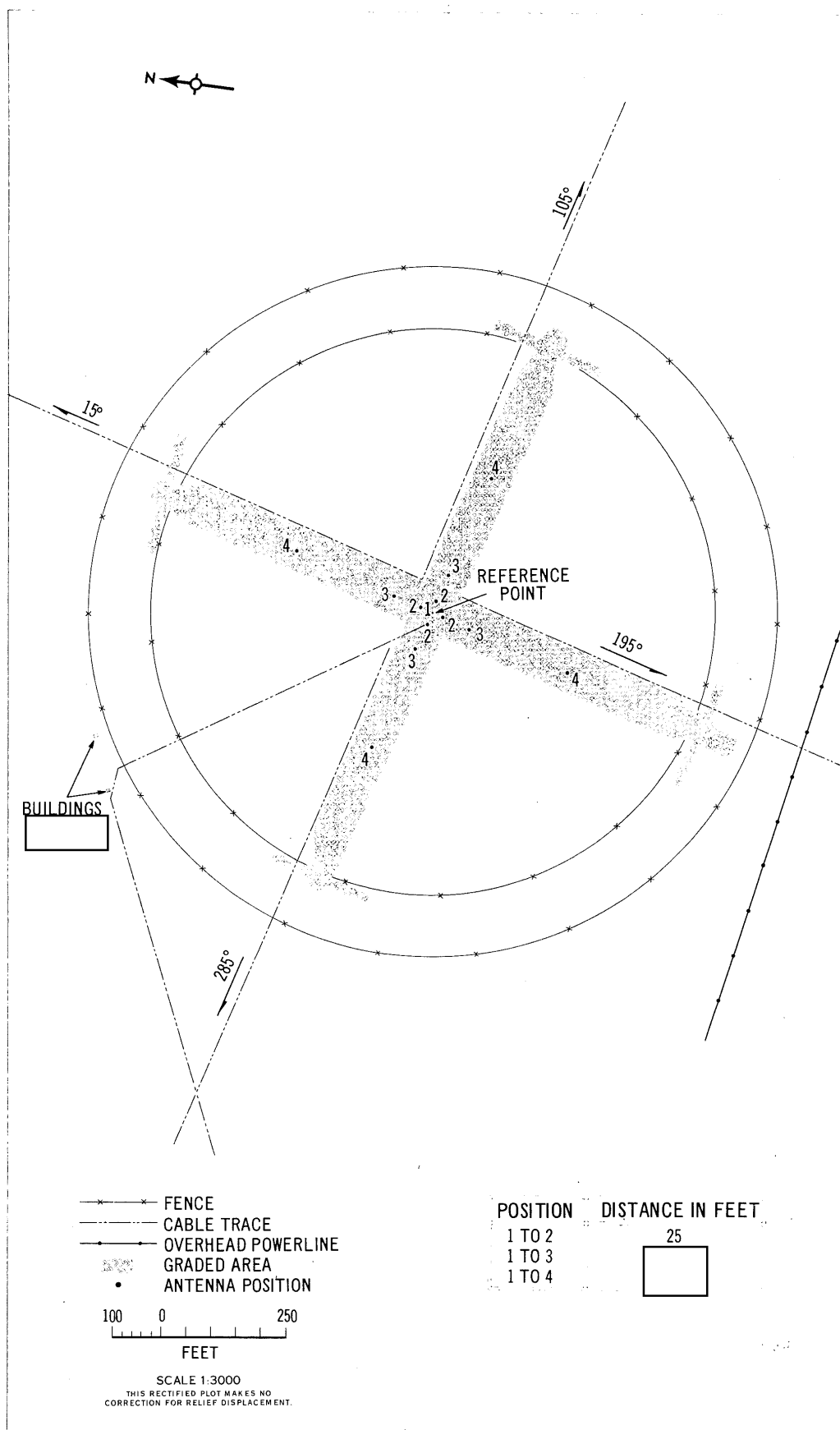


FIGURE 7. LINE DRAWING OF INTERFEROMETER.

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*Instrumentation Site 15 Chronology*Remarks

Site activity negated.

Site first observed in early stage of construction. Two buildings are present. Grading for the E-shaped building is observed. See annotation 42, Figure 5. Extensive track activity throughout area.

Five buildings now present in support area.

Eleven buildings present in support area. The walls of the E-building are under construction. A motor pool and open storage areas are identified.

Thirteen buildings present in support area. Roof is complete on main section of E-building but construction activity continues at wings. A natural-surfaced airstrip has been graded just north of support area. Initial grading for interferometer site is observed.

Fourteen buildings present in support area. No apparent change at E-buildings (imagery poor). Four legs are visible at interferometers. Each extends approximately 500 feet from center.

Sixteen buildings present in support area. Construction activity apparent at wings of E-building. Northeast corner of E-building (80 by 25 feet) is dark in tone. Interferometer grading appears complete (1,000-foot diameter circle).

No significant change since [REDACTED]

Eighteen buildings observed in support area. No significant change in remainder of site.

No change in support area, airfield, or interferometer. The 2 concrete aprons located on either side of E-building are observed for first time and are unoccupied. The foundation for the second operations building is observed. See annotation 33, Figure 5.

No change in support area of airfield. Much activity is visible in the operations area, i.e., unidentified vehicles/equipment and open storage of materials. Each concrete pad at E-building has 2 unidentified vehicles/equipment positioned on it. Roof appears complete on second operations building (annotation 33, Figure 5). Central control bunker is under construction at interferometer. Cable scar is observed connecting second operations building with E-building.

The 2 environmental domes and possible antenna (annotations 43-45, Figure 5) located in front of the wings of the E-building are observed for first time.

No apparent change since [REDACTED]

Scarring for interferometer leg extensions observed for first time.

No apparent change since [REDACTED]

Large probable 2-story barracks building under construction (annotation 18, Figure 5).

Large barracks building appears externally complete. Scarring for all 4 interferometer leg extensions clearly visible. Scarring is also observed at positions which form L-shaped patterns at east, west, and north legs. The large microwave tower is observed for first time (annotation 46, Figure 5).

The U/I structures on wings of E-building (1 on each wing) are observed positioned near the ends of the wings (annotation 42, Figure 5). The horizontal dipole antenna is identified (annotations 37-38, Figure 5). Antennas on interferometers are identified (annotations 2-4, Figure 7). Small probable electronic equipment buildings

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are observed near terminus of each interferometer leg extension (Figure 3). U/I excavations south of second operations building are first observed (annotation 36, Fig 5).

No apparent change since [REDACTED]

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This mission was used as the basic source for the 3 line drawings in this report. The mission provided good-quality, large-scale, [REDACTED] stereo coverage of the entire instrumentation site - the best coverage of the site to date.

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REFERENCES

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(Index 21)

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REFERENCES (Continued)

DOCUMENT

1. CIA. [] *E-Shaped Buildings, Sary-Shagan Antimissile Test Center, USSR, Mar 65* (TOP SECRET [])

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RELATED DOCUMENTS

NPIC. [] *Instrumentation Site 15, SSATC, USSR, Sep 66* (TOP SECRET [])

NPIC. MSG-8393, 7 Sep 66 (TOP SECRET [])

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MAPS OR CHARTS

AMS. Series DESPA-1, Sheet NL 42-1, 1st ed, Nov 64, scale 1:250,000 (TOP SECRET [])

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REQUIREMENT

CIA. C-DI5-82,750 (revised)

NPIC PROJECT

11023/66 (partial answer)

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